



2834
#3
✓
04/05/02
Docket No.: TRANS 3.0-037
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Fjield et al.

Application No.: 09/988,997

Group Art Unit: 2834

Filed: November 21, 2001

Examiner: Not Yet Assigned

For: ULTRASOUND TRANSDUCER UNIT AND
PLANAR ULTRASOUND LENS

Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

It is respectfully requested that the information listed on the enclosed form be made of record and considered with respect to the above-referenced U.S. patent application. A copy of each piece of information is enclosed. Submission of the present Information Disclosure Statement should not be taken as an admission that the cited references are legally available prior art or that the same are pertinent or material.

This Information Disclosure Statement is being filed before a first Office Action on the merits, and therefore, no fee is believed due. In the event that any fee is due in connection with the present Information Disclosure Statement, the Commissioner is hereby authorized to charge the same to our Deposit Account No. 12-1095.

Dated: February 22, 2002

Respectfully submitted,

By Matthew B. Dernier
Matthew B. Dernier
Registration No.: 40,989
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK, LLP
600 South Avenue West
Westfield, New Jersey 07090
(908) 654-5000
Attorneys for Applicant

RECEIVED
MAR 11 2002
TC 2800 MAIL ROOM

353385 1.DOC

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on the date shown below.

Dated: February 22, 2002

Signature: Matthew B. Dernier
(Matthew B. Dernier)



PTO/SB/08A (10-01)

Approved for use through 10/31/2002.OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	09/988,997		
		Filing Date	November 21, 2001		
		First Named Inventor	Todd Fjield		
		Art Unit	2834		
		Examiner Name	Not Yet Assigned		
Sheet	1	of	1	Attorney Docket Number	TRANS 3.0-037

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A	T. Fjield, C.E. Silcox, and K. Hynynen, "Low Profile Lenses for Ultrasound Surgery," Department of Radiology, Brigham and Women's Hospital and Harvard Medical School, Boston, MA 02115	
	B	Todd Fjield, Christina Elise Silcox and Kullervo Hynynen, "Low-profile lenses for ultrasound surgery," IOP Publishing Ltd, Phys. Med. Biol., Vol. 44, No. 7, pp 1803-1813, (July 1999).	
	C	Shiu Chuen Chan, Mani Mina, Satish S. Udupa, Lalita Udupa, and William Lord, "Finite Element Analysis of Multilevel Acoustic Fresnel Lenses," IEEE Article, Transactions On Ultrasonics, Ferroelectrics, and Frequency. Control, Vol. 43, No. 4, pp.670-677, (July 1996).	
	D	B. Hadimioglu, E.G. Rawson, R. Lujan, M. Lim, J.C. Zesch, B.T. Khuri-Yakub and C.F. Quate, "HIGH-EFFICIENCY FRESNEL ACOUSTIC LENSES," IEEE Article, Ultrasonics Symposium, Vol. 1, pp. 579-582, (1993).	
	E	Zhang Li and Zheng Changiu, "CALCULATION OF SOUND INSERTION LOSS OF A BARRIER BY FRESNEL ZONE METHOD," Chinese Journal of Acoustics, Vol. 8, No. 3, pp. 227-234, (1988).	
	F	L.A.A. Warnes, "The use of antiphased zones in an acoustic Fresnel lens for a scanning sonar transmitter," Ultrasonics, pp. 184-188, (July 1982).	
	G	J. Bradford Merry, "HIGH PERFORMANCE ACOUSTO-OPTIC DEVICES: SOLUTIONS TO FRESNEL FIELD PROBLEMS," SPIE Article, Vol. 340, pp. 91-95, (January 1983).	
	H	Gao Jian-Bo, Zhang Fu-Cheng, Zhao Heng-Yuan, "FOCUSING PROPERTIES OF ACOUSTIC FRESNEL LENSES," ACTA ACUSTICA, Vol. 13, No. 5, (Sept. 1988).	

Examiner Signature		Date Considered	
-------------------------------	--	----------------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.